

## CLAIMS

1. A DNA encoding a following protein (a) or (b):
  - (a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 2,
  - (b) a protein comprising an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 2, and having a regulatory activity of chromosome segregation.
2. A DNA consisting of a base sequence shown in SEQ ID NO: 1 or a complementary sequence thereof.
3. A DNA containing part or whole of a base sequence shown in SEQ ID NO: 1 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.
4. A DNA hybridizing with the DNA according to claim 2 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.
5. A protein consisting of an amino acid sequence shown in SEQ ID NO: 2.
6. A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 2, and having a regulatory activity of chromosome segregation.

7. A DNA encoding a following protein (a) or (b):

(a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 4,

(b) a protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 4, and having a regulatory activity of chromosome segregation.

8. A DNA consisting of a base sequence shown in SEQ ID NO: 3 or a complementary sequence thereof.

9. A DNA containing part or whole of a base sequence shown in SEQ ID NO: 3 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

10. A DNA hybridizing with the DNA according to claim 8 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

11. A protein consisting of an amino acid sequence shown in SEQ ID NO: 4.

12. A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 4, and having a regulatory activity of chromosome segregation.

13. A DNA encoding a following protein (a) or (b):

(a) a protein consisting of an amino acid sequence shown in SEQ

ID NO: 6,

(b) a protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 6, and having a regulatory activity of chromosome segregation.

14. A DNA consisting of a base sequence shown in SEQ ID NO: 5 or a complementary sequence thereof.

15. A DNA containing part or whole of a base sequence shown in SEQ ID NO: 5 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

16. A DNA hybridizing with the DNA according to claim 14 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

17. A protein consisting of an amino acid sequence shown in SEQ ID NO: 6.

18. A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 6, and having a regulatory activity of chromosome segregation.

19. A DNA encoding a following protein (a) or (b) that has a regulatory activity of chromosome segregation:

(a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20,

(b) a protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20.

20. A DNA consisting of a base sequence shown in SEQ ID NO: 7, 9, 11, 13, 15, 17 or 19 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

21. A DNA containing part or whole of a base sequence shown in SEQ ID NO: 7, 9, 11, 13, 15, 17 or 19 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

22. A DNA hybridizing with the DNA according to claim 7, 9, 11, 13, 15, 17 or 19 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

23. A protein consisting of an amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20, and having a regulatory activity of chromosome segregation.

24. A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20, and having a regulatory activity of chromosome segregation.

25. A fusion protein in which the protein according to claim

5, 6, 11, 12, 23 or 24 is bound with a marker protein and/or a peptide tag.

26. An antibody specifically binding to the protein according to claim 5, 6, 11, 12, 23 or 24.

27. The antibody according to claim 26, which is a monoclonal antibody.